RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _09/747,287_

Source: _1606_

Date Processed by STIC: _11/10/03_

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2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221
Effective 12/13/03: **TELEPHONE: 571-272-2510; FAX: 571-273-0221**

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
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Revised 10/08/03

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RAW SEQUENCE LISTING   DATE: 11/10/2003
PATENT APPLICATION: US/09/747,287   TIME: 10:58:20

Input Set : A:\300-948600US.txt
Output Set: N:\CRF4\11102003\I747287.raw

```
 3 <110> APPLICANT: KOMORIYA, AKIRA
 4       PACKARD, BEVERLY S.
 6 <120> TITLE OF INVENTION: HOMO-DOUBLY LABELED COMPOSITIONS FOR THE DETECTION OF ENZYME
 7       ACTIVITY IN BIOLOGICAL SAMPLES
 9 <130> FILE REFERENCE: 300-948600US
11 <140> CURRENT APPLICATION NUMBER: 09/747,287
12 <141> CURRENT FILING DATE: 2000-12-22
14 <150> PRIOR APPLICATION NUMBER: US 09/349,019
15 <151> PRIOR FILING DATE: 1999-09-10
17 <150> PRIOR APPLICATION NUMBER: US08/802,981
18 <151> PRIOR FILING DATE: 1997-02-20
20 <150> PRIOR APPLICATION NUMBER: PCT/US00/24882
21 <151> PRIOR FILING DATE: 2000-09-11
23 <160> NUMBER OF SEQ ID NOS: 242
25 <170> SOFTWARE: PatentIn version 3.2
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 9
29 <212> TYPE: PRT
30 <213> ORGANISM: Artificial
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Synthetic peptide.
36 <220> FEATURE:
37 <221> NAME/KEY: misc_feature
38 <222> LOCATION: (5)..(5)
39 <223> OTHER INFORMATION: Xaa is norleucine
41 <400> SEQUENCE: 1
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W--> 43 **Asp Ala Ile Pro Xaa Ser Ile Pro Cys**
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44 1               5
47 <210> SEQ ID NO: 2
48 <211> LENGTH: 5
49 <212> TYPE: PRT
50 <213> ORGANISM: Artificial
52 <220> FEATURE:
53 <223> OTHER INFORMATION: Synthetic peptide.
55 <400> SEQUENCE: 2
57 Ile Pro Met Ser Ile
58 1               5
61 <210> SEQ ID NO: 3
62 <211> LENGTH: 4
63 <212> TYPE: PRT
64 <213> ORGANISM: Artificial
66 <220> FEATURE:
67 <223> OTHER INFORMATION: Synthetic peptide.
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Does Not Comply
Corrected Diskette Needed

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RAW SEQUENCE LISTING   DATE: 11/10/2003
PATENT APPLICATION: US/09/747,287   TIME: 10:58:20

            Input Set : A:\300-948600US.txt
            Output Set: N:\CRF4\11102003\I747287.raw

        69 <400> SEQUENCE: 3
        71 Pro Met Ser Ile
        72 1
        75 <210> SEQ ID NO: 4
        76 <211> LENGTH: 4
        77 <212> TYPE: PRT
        78 <213> ORGANISM: Artificial
        80 <220> FEATURE:
        81 <223> OTHER INFORMATION: Synthetic peptide.
        84 <220> FEATURE:
        85 <221> NAME/KEY: misc_feature
        86 <222> LOCATION: (2)..(2)
        87 <223> OTHER INFORMATION: Xaa is norleucine
        89 <400> SEQUENCE: 4
W--> 91 Pro Xaa Ser Ile
        92 1
        95 <210> SEQ ID NO: 5
        96 <211> LENGTH: 9
        97 <212> TYPE: PRT
        98 <213> ORGANISM: Artificial
       100 <220> FEATURE:
       101 <223> OTHER INFORMATION: Synthetic peptide.
       104 <220> FEATURE:
       105 <221> NAME/KEY: misc_feature
       106 <222> LOCATION: (5)..(5)
       107 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
       109 <220> FEATURE:
       110 <221> NAME/KEY: misc_feature
       111 <222> LOCATION: (8)..(8)
       112 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid
       114 <220> FEATURE:
       115 <221> NAME/KEY: misc_feature
       116 <222> LOCATION: (9)..(9)
       117 <223> OTHER INFORMATION: Xaa is Cys or Lys
       119 <400> SEQUENCE: 5
W--> 121 Asp Ala Ile Pro Xaa Ser Ile Xaa Xaa
       122 1   5
       125 <210> SEQ ID NO: 6
       126 <211> LENGTH: 9
       127 <212> TYPE: PRT
       128 <213> ORGANISM: Artificial
       130 <220> FEATURE:
       131 <223> OTHER INFORMATION: Synthetic peptide.
       134 <220> FEATURE:
       135 <221> NAME/KEY: misc_feature
       136 <222> LOCATION: (2)..(2)
       137 <223> OTHER INFORMATION: Xaa is Met, alpha-aminoisobutyric acid, or Pro
       139 <220> FEATURE:
       140 <221> NAME/KEY: misc_feature

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141 <222> LOCATION: (3)..(3)
142 <223> OTHER INFORMATION: Xaa is Thr, alpha-aminoisobutyric acid, or Pro
144 <220> FEATURE:
145 <221> NAME/KEY: misc_feature
146 <222> LOCATION: (8)..(8)
147 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid
149 <220> FEATURE:
150 <221> NAME/KEY: misc_feature
151 <222> LOCATION: (9)..(9)
152 <223> OTHER INFORMATION: Xaa is Cys or Lys
154 <400> SEQUENCE: 6
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W--> 156 **Asp Xaa Xaa Gly Arg Thr Gly Xaa Xaa**
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157 1               5
160 <210> SEQ ID NO: 7
161 <211> LENGTH: 9
162 <212> TYPE: PRT
163 <213> ORGANISM: Artificial
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Synthetic peptide.
169 <220> FEATURE:
170 <221> NAME/KEY: misc_feature
171 <222> LOCATION: (2)..(2)
172 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid or Ala
174 <220> FEATURE:
175 <221> NAME/KEY: misc_feature
176 <222> LOCATION: (3)..(3)
177 <223> OTHER INFORMATION: Xaa is Thr, alpha-aminoisobutyric acid, or Pro
179 <220> FEATURE:
180 <221> NAME/KEY: misc_feature
181 <222> LOCATION: (6)..(6)
182 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
184 <220> FEATURE:
185 <221> NAME/KEY: misc_feature
186 <222> LOCATION: (8)..(8)
187 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid
189 <220> FEATURE:
190 <221> NAME/KEY: misc_feature
191 <222> LOCATION: (9)..(9)
192 <223> OTHER INFORMATION: Xaa is Cys or Lys
194 <400> SEQUENCE: 7
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W--> 196 **Asp Xaa Xaa Phe Cys Xaa Leu Xaa Xaa**
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197 1               5
200 <210> SEQ ID NO: 8
201 <211> LENGTH: 9
202 <212> TYPE: PRT
203 <213> ORGANISM: Artificial
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Synthetic peptide.
209 <220> FEATURE:
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210 <221> NAME/KEY: misc_feature
211 <222> LOCATION: (2)..(2)
212 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid
214 <220> FEATURE:
215 <221> NAME/KEY: misc_feature
216 <222> LOCATION: (3)..(3)
217 <223> OTHER INFORMATION: Xaa is Ser, alpha-aminoisobutyric acid, or Pro
219 <220> FEATURE:
220 <221> NAME/KEY: misc_feature
221 <222> LOCATION: (5)..(5)
222 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <222> LOCATION: (8)..(8)
227 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid
229 <220> FEATURE:
230 <221> NAME/KEY: misc_feature
231 <222> LOCATION: (9)..(9)
232 <223> OTHER INFORMATION: Xaa is Cys or Lys
234 <400> SEQUENCE: 8
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237 1                 5
240 <210> SEQ ID NO: 9
241 <211> LENGTH: 9
242 <212> TYPE: PRT
243 <213> ORGANISM: Artificial
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Synthetic peptide.
249 <220> FEATURE:
250 <221> NAME/KEY: misc_feature
251 <222> LOCATION: (2)..(2)
252 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid, or Ile
254 <220> FEATURE:
255 <221> NAME/KEY: misc_feature
256 <222> LOCATION: (3)..(3)
257 <223> OTHER INFORMATION: Xaa is Alar, alpha-aminoisobutyric acid, or Pro
259 <220> FEATURE:
260 <221> NAME/KEY: misc_feature
261 <222> LOCATION: (8)..(8)
262 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid
264 <220> FEATURE:
265 <221> NAME/KEY: misc_feature
266 <222> LOCATION: (9)..(9)
267 <223> OTHER INFORMATION: Xaa is Cys or Lys
269 <400> SEQUENCE: 9
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272 1                 5
275 <210> SEQ ID NO: 10
276 <211> LENGTH: 8
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277 <212> TYPE: PRT
278 <213> ORGANISM: Artificial
280 <220> FEATURE:
281 <223> OTHER INFORMATION: Synthetic peptide.
284 <220> FEATURE:
285 <221> NAME/KEY: misc_feature
286 <222> LOCATION: (2)..(2)
287 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid
289 <220> FEATURE:
290 <221> NAME/KEY: misc_feature
291 <222> LOCATION: (3)..(3)
292 <223> OTHER INFORMATION: Xaa is Thr, alpha-aminoisobutyric acid, or Pro
294 <220> FEATURE:
295 <221> NAME/KEY: misc_feature
296 <222> LOCATION: (7)..(7)
297 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
299 <220> FEATURE:
300 <221> NAME/KEY: misc_feature
301 <222> LOCATION: (8)..(8)
302 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid
304 <220> FEATURE:
305 <221> NAME/KEY: misc_feature
306 <222> LOCATION: (9)..(9)
307 <223> OTHER INFORMATION: Xaa is Cys or Lys
309 <400> SEQUENCE: 10
311 Asp Xaa Leu Leu Ser Leu Xaa Xaa
312 1               5
315 <210> SEQ ID NO: 11
316 <211> LENGTH: 9
317 <212> TYPE: PRT
318 <213> ORGANISM: Artificial
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Synthetic peptide.
324 <220> FEATURE:
325 <221> NAME/KEY: misc_feature
326 <222> LOCATION: (2)..(2)
327 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid, or Gly
329 <220> FEATURE:
330 <221> NAME/KEY: misc_feature
331 <222> LOCATION: (3)..(3)
332 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid, or Pro
334 <220> FEATURE:
335 <221> NAME/KEY: misc_feature
336 <222> LOCATION: (8)..(8)
337 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid
339 <220> FEATURE:
340 <221> NAME/KEY: misc_feature
341 <222> LOCATION: (9)..(9)
342 <223> OTHER INFORMATION: Xaa is Cys or Lys
```

W--> (handwritten annotations: "Leu is at location 3", "? only 8 amino acids in the sequence")

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 11/10/2003
PATENT APPLICATION: US/09/747,287   TIME: 10:58:21

Input Set : A:\300-948600US.txt
Output Set: N:\CRF4\11102003\I747287.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 5
Seq#:4; Xaa Pos. 2
Seq#:5; Xaa Pos. 5,8,9
Seq#:6; Xaa Pos. 2,3,8,9
Seq#:7; Xaa Pos. 2,3,6,8,9
Seq#:8; Xaa Pos. 2,3,5,8,9
Seq#:9; Xaa Pos. 2,3,8,9
Seq#:10; Xaa Pos. 2,7,8
Seq#:11; Xaa Pos. 2,3,6,8
Seq#:12; Xaa Pos. 2,3,8,9
Seq#:13; Xaa Pos. 2,3,8,9
Seq#:14; Xaa Pos. 2,3,8,9
Seq#:15; Xaa Pos. 2,3,8,9
Seq#:16; Xaa Pos. 2,3,8,9
Seq#:17; Xaa Pos. 2,3,8,9
Seq#:18; Xaa Pos. 2,3,8,9
Seq#:19; Xaa Pos. 2,3,7,8,9
Seq#:20; Xaa Pos. 2,3,8,9
Seq#:21; Xaa Pos. 2,3,8,9
Seq#:22; Xaa Pos. 2,3,8,9
Seq#:23; Xaa Pos. 2,3,8,9
Seq#:24; Xaa Pos. 2,3,8,9
Seq#:25; Xaa Pos. 2,3,8,9
Seq#:26; Xaa Pos. 2,3,8,9
Seq#:27; Xaa Pos. 2,3,8,9
Seq#:28; Xaa Pos. 2,3,8,9
Seq#:29; Xaa Pos. 2,3,8,9
Seq#:30; Xaa Pos. 2,3,8,9
Seq#:31; Xaa Pos. 2,3,8,9
Seq#:32; Xaa Pos. 2,3,8,9
Seq#:33; Xaa Pos. 2,3,8,9
Seq#:34; Xaa Pos. 2,3,8,9
Seq#:46; Xaa Pos. 6
Seq#:48; Xaa Pos. 4
Seq#:49; Xaa Pos. 4
Seq#:51; Xaa Pos. 4,14
Seq#:52; Xaa Pos. 4,14,16
Seq#:53; Xaa Pos. 4,6,15
Seq#:54; Xaa Pos. 4
Seq#:55; Xaa Pos. 13
Seq#:56; Xaa Pos. 4,14,16
Seq#:57; Xaa Pos. 4,14
Seq#:58; Xaa Pos. 4,7,14
Seq#:59; Xaa Pos. 4,6,9,14

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 11/10/2003
PATENT APPLICATION: US/09/747,287   TIME: 10:58:21

Input Set : A:\300-948600US.txt
Output Set: N:\CRF4\11102003\I747287.raw

Seq#:60; Xaa Pos. 4,14
Seq#:61; Xaa Pos. 4,14
Seq#:62; Xaa Pos. 4,14
Seq#:63; Xaa Pos. 4,14
Seq#:64; Xaa Pos. 4,14
Seq#:65; Xaa Pos. 4,5,14,15
Seq#:66; Xaa Pos. 4,14

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51
Seq#:52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75
Seq#:76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99
Seq#:100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117
Seq#:118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135
Seq#:136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153
Seq#:154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171
Seq#:172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189
Seq#:190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207
Seq#:208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225
Seq#:226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242

VERIFICATION SUMMARY　　　　　　DATE: 11/10/2003
PATENT APPLICATION:　**US/09/747,287**　　TIME: 10:58:21

Input Set : **A:\300-948600US.txt**
Output Set: **N:\CRF4\11102003\I747287.raw**

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L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:666 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:736 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:771 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:806 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:841 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:876 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:911 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:1016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:1051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:1086 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:1121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:1156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:1330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:1364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
L:1388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:1431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:1465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0
L:1495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0
L:1519 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0
L:1543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
L:1577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
L:1602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0
L:1636 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0
L:1675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0
L:1704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0
L:1733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
L:1762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:1791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
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VERIFICATION SUMMARY   DATE: 11/10/2003
PATENT APPLICATION: **US/09/747,287**   TIME: 10:58:21

Input Set : **A:\300-948600US.txt**
Output Set: **N:\CRF4\11102003\I747287.raw**

L:1820 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0
L:1849 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0